

Appendix G

Appendix G

Individual Utility Comparison of Projected Demand and Future Supply⁽¹⁾

<u>Page</u>	<u>Utility</u>
F-1	Ames Lake Water Association, Inc.
F-2	Black Diamond Water Department
F-3	Covington Water District
F-4	Issaquah Water System
F-5	Kent Water Department
F-6	King County Water District No. 111
F-7	City of North Bend
F-8	City of Pacific
F-9	Sallal Water Association, Inc.
F-10	Sammamish Plateau Water & Sewer

Note to reader: The graphical analyses presented in this Appendix show projected average and peak day demands (i.e., the solid lines on the graphs), as well as existing supplies and planned improvements (i.e., the dotted lines on the graphs) for 2000 through 2020. Large vertical jumps in the supply lines indicate the impact of a planned supply improvement. Potential shortfalls are illustrated by demand lines crossing above supply lines. All data presented in this appendix was verified with the utilities as a part of the Outlook process during the spring of 2001. The demand forecasts presented in these graphs are based upon information provided by the individual utilities during the Outlook process and represent many different assumptions about conservation. Individual utilities did not provide estimates of the potential for conservation to reduce their forecast demand. However, it is probable that many of the utilities profiled in this section could reduce their rate of demand growth below what is shown in the graphs by intensifying their investment in conservation.

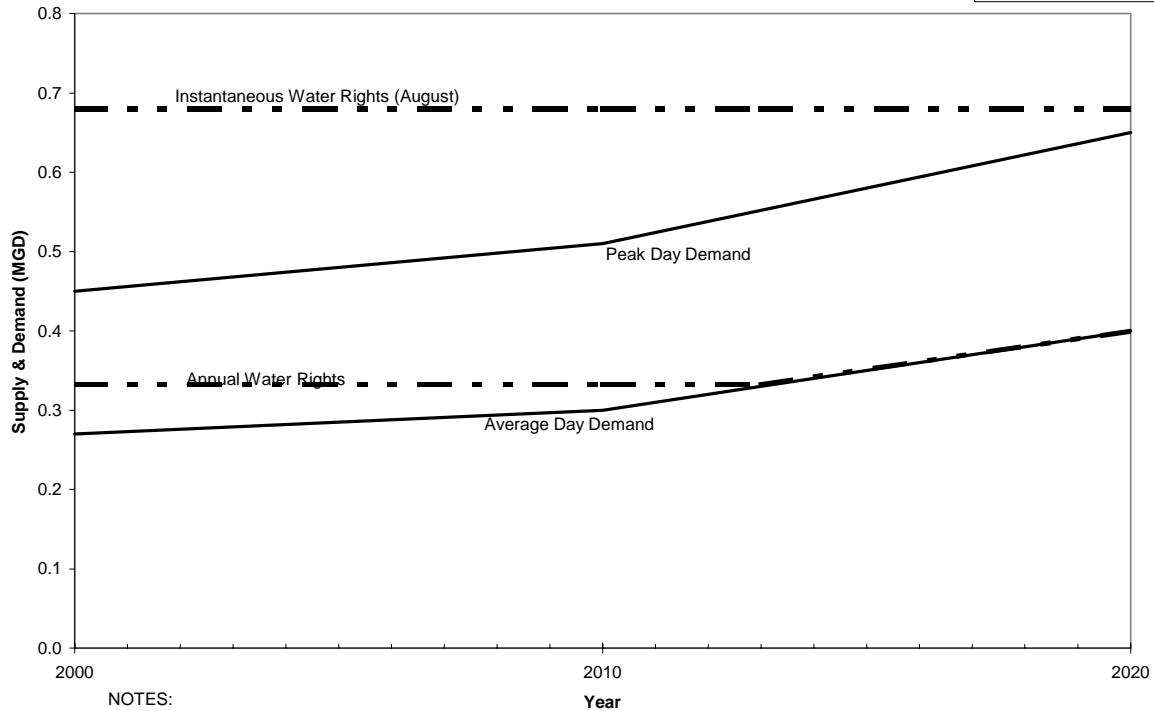
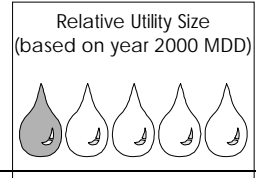
Relative Utility Size Categories

(Based on Year 2000 Peak Day Demand, in mgd)



⁽¹⁾ Source: Central Puget Sound Regional Water Supply Outlook, Technical Memorandum entitled, "Comparison of Supply and Demand."

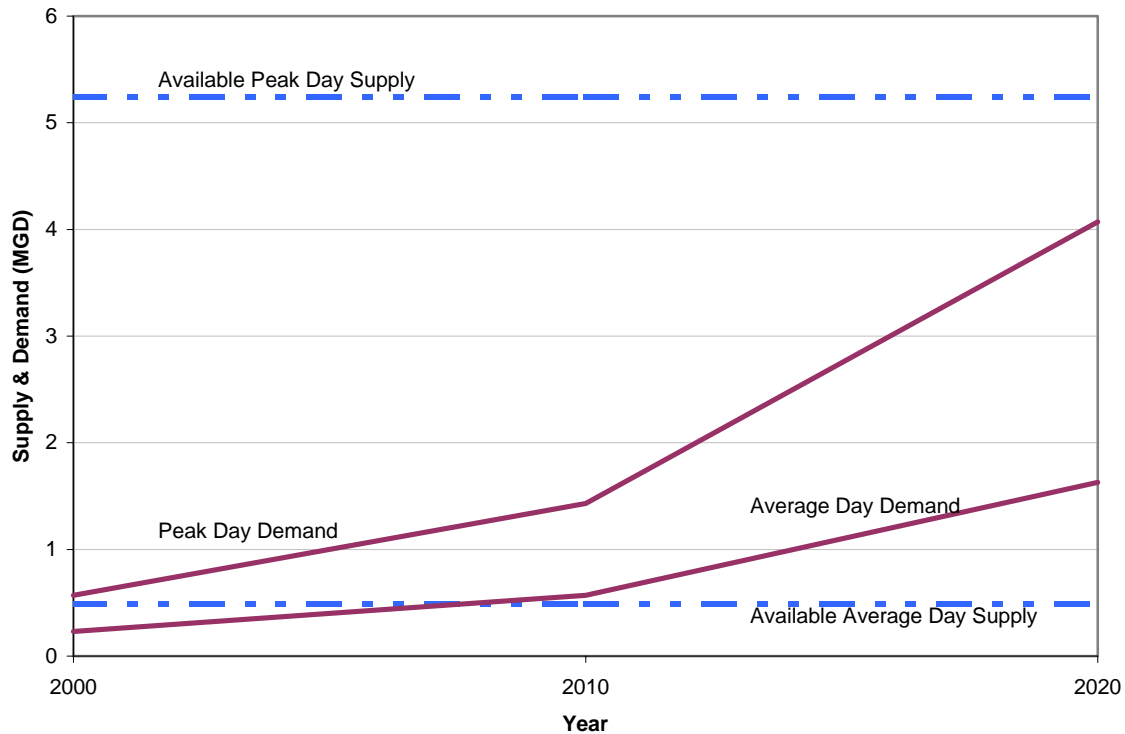
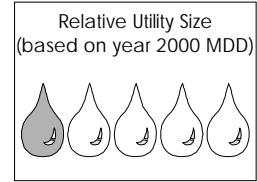
AMES LAKE WATER ASSOCIATION, INC. EXISTING AND FUTURE SUPPLY AND PROJECTED DEMANDS



Future Supply Options

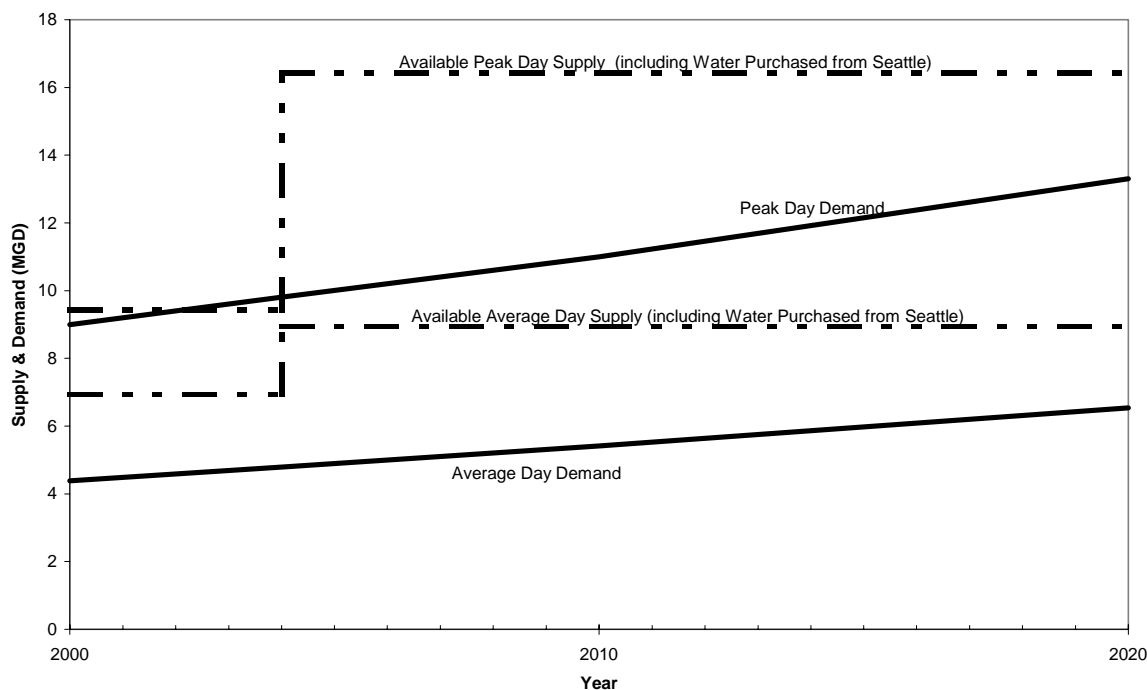
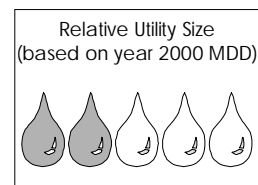
Description	Year	Water Rights Increases		Capacity Increases	
		Qa	Qi	Average Day	Peak Day
New water right	2004	0.09 mgd	0.09 mgd	0.09 mgd	0.09 mgd
Intertie with Sammamish Plateau ¹	2001	NA	NA	See Notes	See Notes
Comments 1. Intertie would deliver Seattle water from a tap off of the Tolt Pipeline. Purchased water would be sufficient to meet future annual and maximum day demands.					

BLACK DIAMOND WATER DEPARTMENT EXISTING AND FUTURE SUPPLY AND PROJECTED DEMANDS



Future Supply Options					
Description	Year	Water Rights Increases		Capacity Increases	
		Qa	Qi	Average Day	Peak Day
Second Supply Project ¹	2004	NA	NA	See Notes	See Notes
Intertie with Covington ²		NA	NA	See Notes	See Notes
New water right ³		0.25 mgd		0.25 mgd	
Comments 1. There is no existing agreement with Tacoma. Black Diamond is currently pursuing this as an option. An intertie could meet Black Diamond's demands through 2020. 2. There is no existing agreement with Covington. Black Diamond is currently pursuing this as an option. An intertie could meet Black Diamond's demands through 2020. 3. A new water right is unlikely due to instream flow requirements in the Green River.					

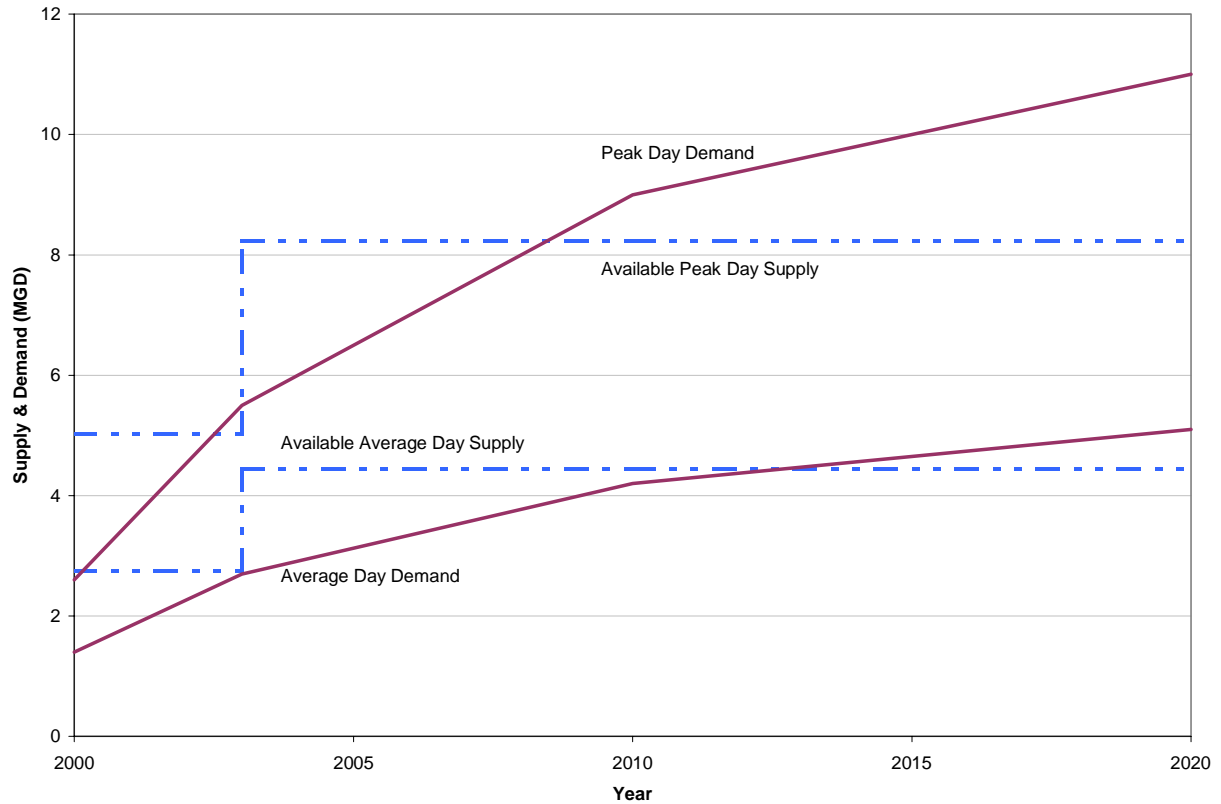
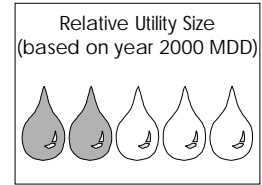
COVINGTON WATER DISTRICT EXISTING AND FUTURE SUPPLY AND PROJECTED DEMANDS



NOTES:
Supply does not include 2.5 mgd of interruptible purchases from Auburn.

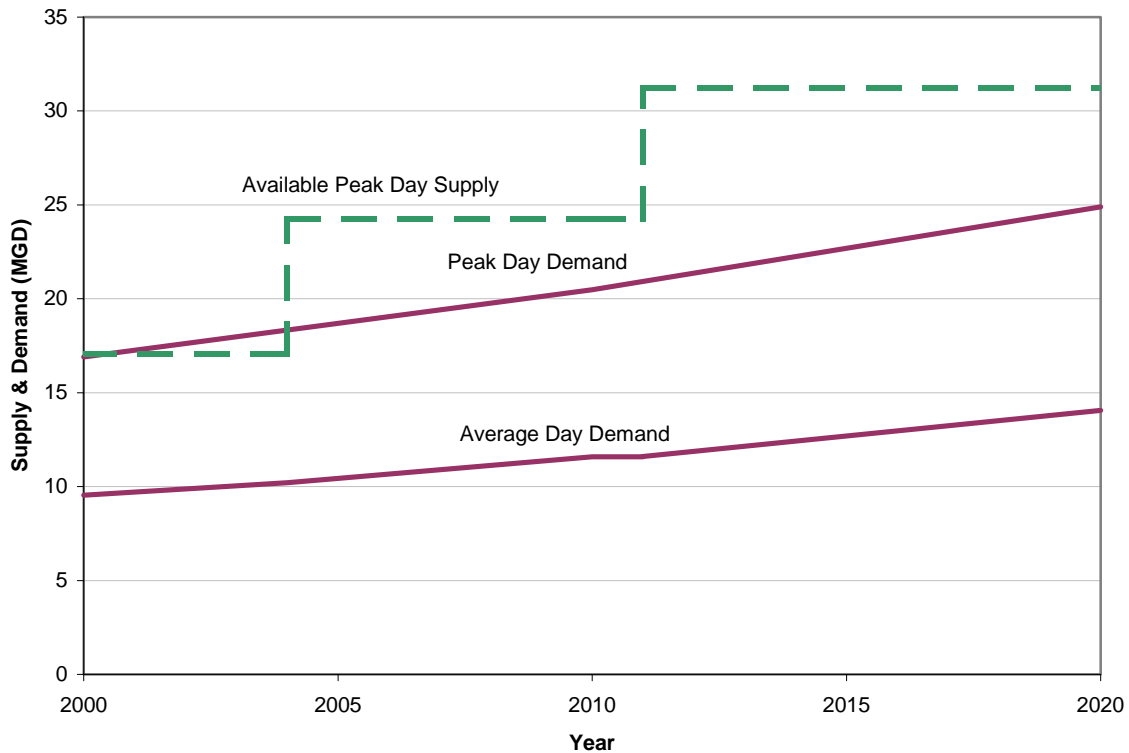
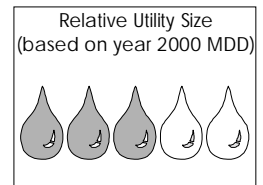
Future Supply Options					
Description	Year	Water Rights Increases		Capacity Increases	
		Qa	Qi	Average Day	Peak Day
Tacoma Second Supply Project	2004	NA	NA	2 mgd	>7 mgd
Comments Covington can purchase up to 2.5 mgd annually and instantaneously from Auburn, on an interruptible basis. If Auburn's supply is interrupted, then Covington may purchase water from Seattle. However, water from Seattle is limited to 1.5 mgd annually and instantaneously.					
Description	Year	Water Rights Increases		Capacity Increases	
		Qa	Qi	Average Day	Peak Day
Tacoma Second Supply Project	2004	NA	NA	2 mgd	2 mgd

ISSAQUAH WATER SYSTEM EXISTING AND FUTURE SUPPLY AND PROJECTED DEMANDS



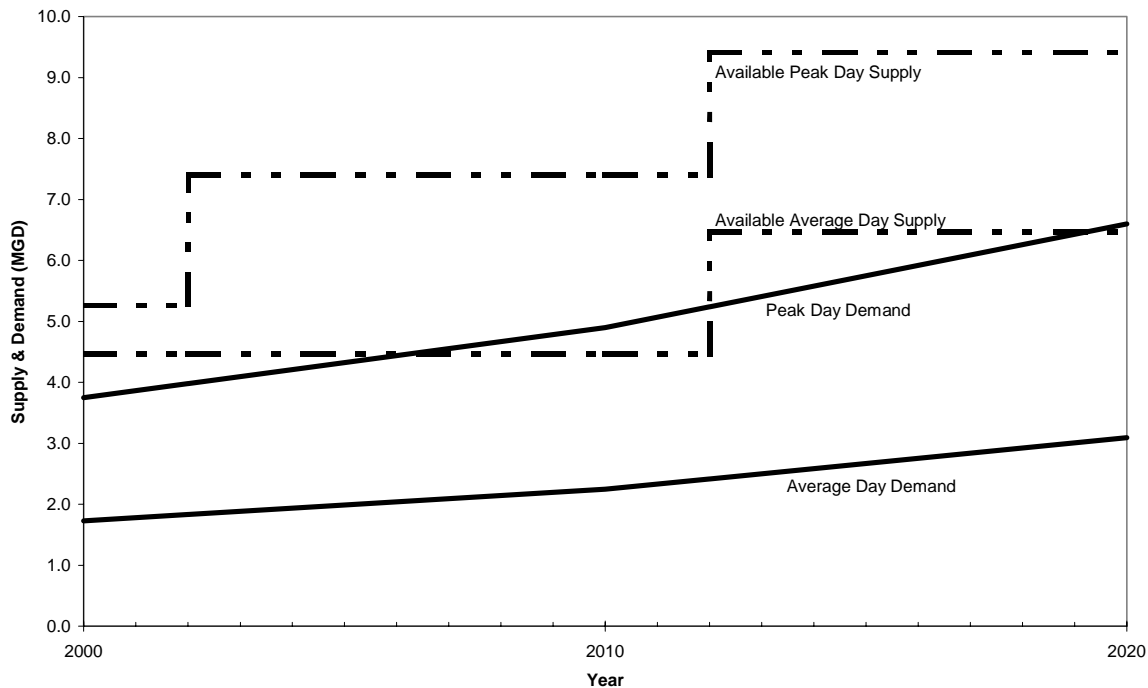
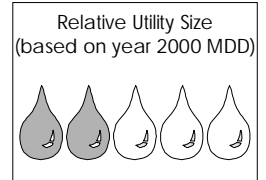
Future Supply Options					
Description	Year	Water Rights Increases		Capacity Increases	
		Qa	Qi	Average Day	Peak Day
New Transmission Pipeline ¹	2003	NA	NA	1.7	4.2
Comments <ol style="list-style-type: none"> Pipeline would allow Issaquah to utilize full contracted purchase amounts from the City of Bellevue. However, available supply would still be insufficient to meet forecast demands, with an expected shortfall in peak day supply in 2007 and a projected shortfall in average day supply in 2010. Issaquah is talking with SPU to get 1 mgd of peak supply for fish flows in the North Fork of Issaquah Creek. If SPU agrees, then one condition of the agreement would be for Issaquah to reduce their water right capacity by 1 mgd, to 3.4 mgd. 					

KENT WATER DEPARTMENT EXISTING AND FUTURE SUPPLY AND PROJECTED DEMANDS



Future Supply Options					
Description	Year	Water Rights Increases		Capacity Increases	
		Qa	Qi	Average Day	Peak Day
Tacoma Second Supply Project	2004	NA	NA	NA	7 mgd
New water right (pending since 1995)	Pending	NA	1.73 mgd	NA	1.73 mgd
Impoundment Storage Facility (Phase 1)	2011	NA	NA	NA	7 mgd
Impoundment Storage Facility (Phase 2)	2020	NA	NA	NA	4 mgd
Comments					

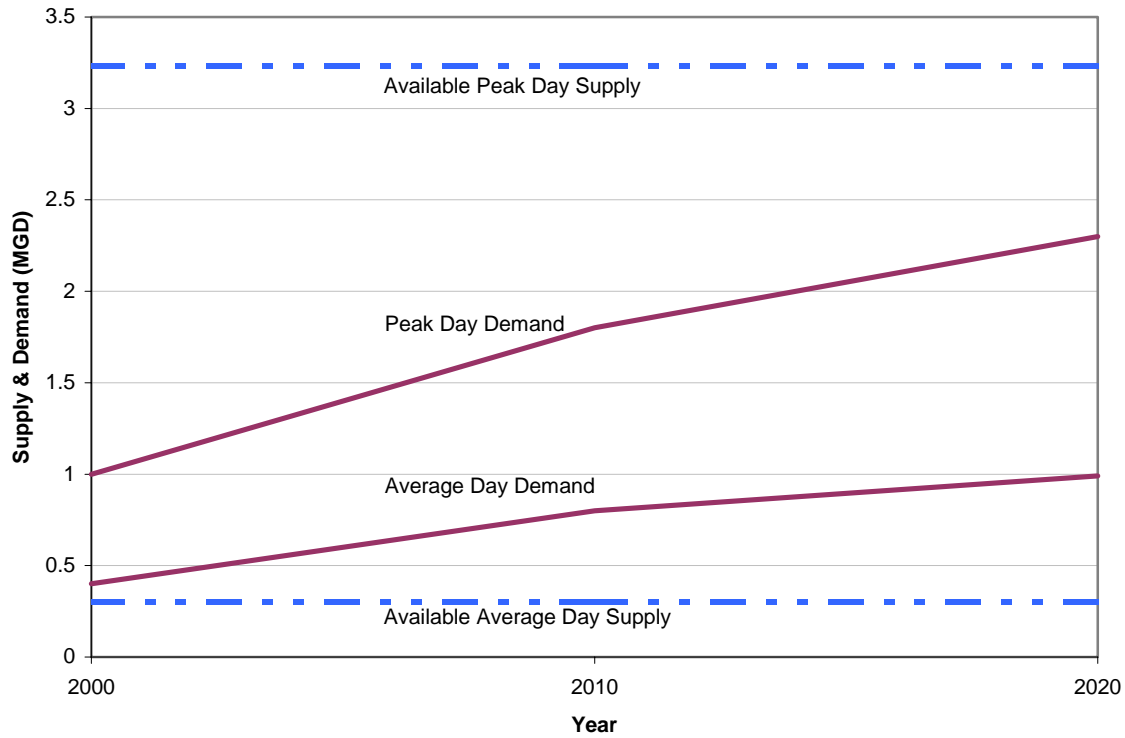
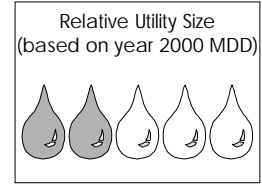
KING COUNTY WATER DISTRICT NO. 111 EXISTING AND FUTURE SUPPLY AND PROJECTED DEMANDS



NOTES:
Supply includes 2.5 mgd of interruptible purchases from Auburn.

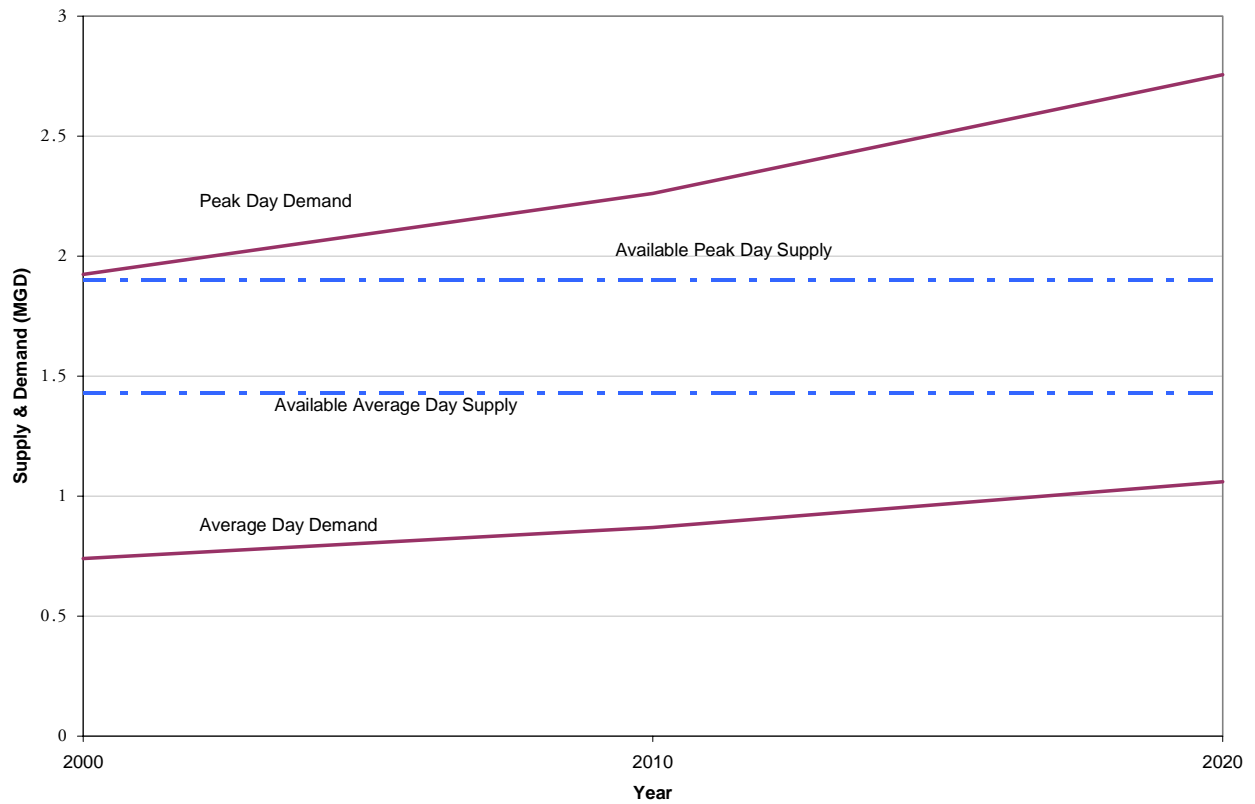
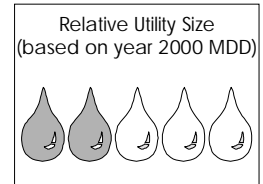
Future Supply Options					
Description	Year	Water Rights Increases		Capacity Increases	
		Qa	Qi	Average Day	Peak Day
New pump at well source		NA	NA		0.14 mgd
Recharge of winter water surplus to Lakehaven	2002	NA	NA		2.0 mgd ¹
Purchase from Seattle Public Utilities	2012	NA	NA	2.0 mgd	2.0 mgd
Comments					
1. Approximate quantity. Actual quantity would be determined by the amount needed to recharge sufficient supply for 3 months of peaking use.					

CITY OF NORTH BEND EXISTING AND FUTURE SUPPLY AND PROJECTED DEMANDS



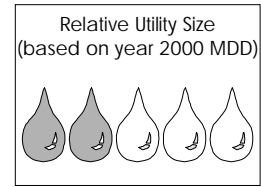
Future Supply Options					
Description	Year	Water Rights Increases		Capacity Increases	
		Qa	Qi	Average Day	Peak Day
New water right (Mount Si Springs) ¹	Pending since 1992	2.93 mgd	NA	2.93 mgd	NA
Purchase from Snoqualmie or Sallal		NA	NA		
Comments 1. Applied to increase the annual amount to the instantaneous amount.					

CITY OF PACIFIC EXISTING AND FUTURE SUPPLY AND PROJECTED DEMANDS



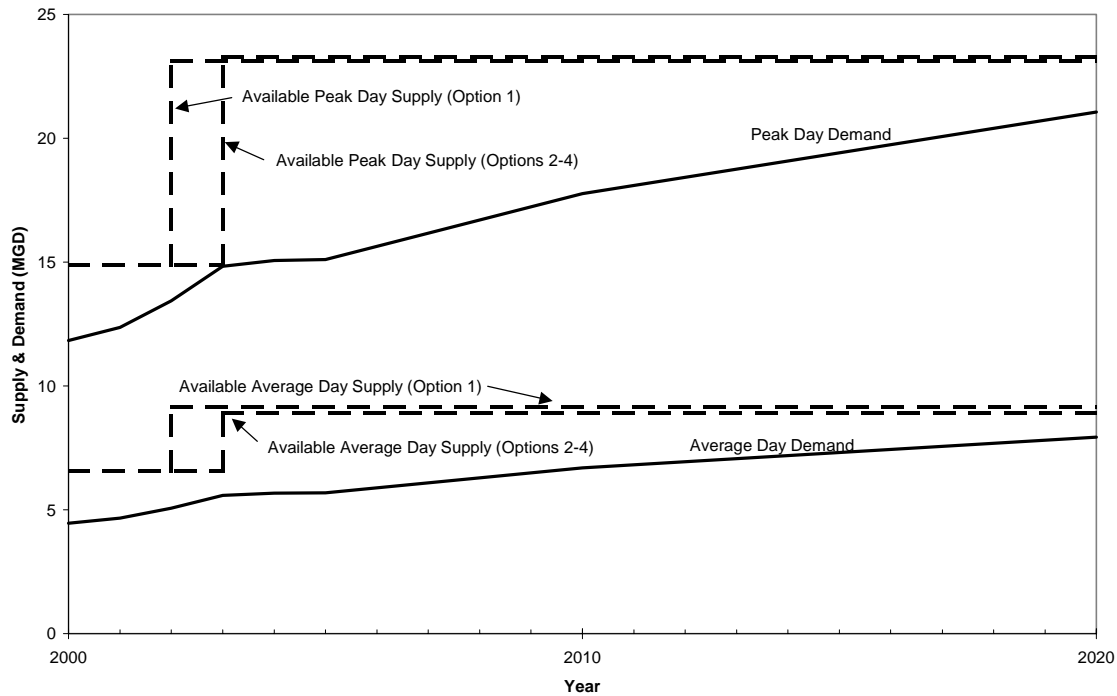
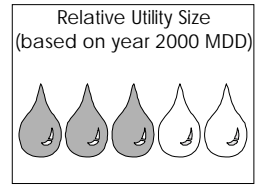
Future Supply Options					
Description	Year	Water Rights Increases		Capacity Increases	
		Qa	Qi	Average Day	Peak Day
New water right	2000				
Transfer existing WR					
Comments					

**SALLAL WATER ASSOCIATION, INC.
EXISTING AND FUTURE SUPPLY
AND PROJECTED DEMANDS**



[Data regarding potential future supply options
were not detailed enough to present in
graphical or tabular form.]

SAMMAMISH PLATEAU WATER & SEWER EXISTING AND FUTURE SUPPLY AND PROJECTED DEMANDS



Future Supply Options					
Description	Year	Water Rights Increases		Capacity Increases	
		Qa	Qi	Average Day	Peak Day
1) New Groundwater Rights & Groundwater Recharge	2002	2.14	7.78	2.54	8.23
2) Connect to Tolt Pipeline 2	2003	NA	NA	2.36	8.37
3) Connect to Issaquah Pipeline (Blended water)	2003	NA	NA	2.36	8.37
4) Connect to Issaquah Pipeline (No blended water)	2003	NA	NA	2.36	8.37
Comments					